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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (original): A vibrator comprising:
a vibrating body;
a driving unit for causing said vibrating body to vibrate in a predetermined vibrating direction; and
a driving monitoring unit provided in a barycentric region of said vibrating body for detecting vibration displacement in a driving direction of said vibrating body.

Claim 2 (original): A vibrator according to claim 1, wherein said vibrating body vibrates in the driving direction thereof and in a Coriolis force direction that is substantially perpendicular to said driving direction when a Coriolis force is applied to said vibrating body, and further comprising a Coriolis force direction vibrating detecting unit for detecting vibration displacement in the Coriolis force direction of said vibrating body.

Claim 3 (previously presented): A vibrator according to claim 2, wherein said vibrating body has a double-frame construction obtained by connecting an inner frame to the inside of an outer frame via a coupling beam so that said vibrating body can flexibly vibrate in the Coriolis force direction, and said driving unit causes said outer frame and said inner frame to vibrate in an integral manner in the driving direction, said inner frame being constructed and arranged so as to be vibrated in the Coriolis force direction with respect to said outer frame due to the Coriolis force caused by an angular velocity, and said driving monitoring unit being provided in the barycentric region of said

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vibrating body disposed inside said inner frame while being supported by said inner frame.

Claim 4 (previously presented): A vibrator according to claim 3, in which said Coriolis force is caused by an angular velocity of rotation around an axis having a direction perpendicular to both said driving direction and said Coriolis direction and further comprising a circuit responsive to said Coriolis force direction vibrating detecting unit for determining said angular velocity of rotation.

Claim 5 (new): A vibrator according to claim 1, the vibrator further includes a plurality of comb-shaped fixed electrodes; and
the driving monitoring unit includes a plurality of comb-shaped movable electrodes disposed in the barycentric region of the vibrating body; wherein
each of the plurality of comb-shaped movable electrodes and each of the plurality of comb-shaped fixed electrodes include a plurality of tines;
the plurality of tines of each of the plurality of comb-shaped movable electrodes extend only in one direction and the plurality of tines of each of the plurality of comb-shaped fixed electrodes extend only in a direction that is opposite to the one direction;
and
the plurality of tines of each of the plurality of comb-shaped movable electrodes engage the plurality of tines of a corresponding one of the plurality of comb-shaped fixed electrodes such that the vibration displacement in the driving direction of the vibrating body is detected.